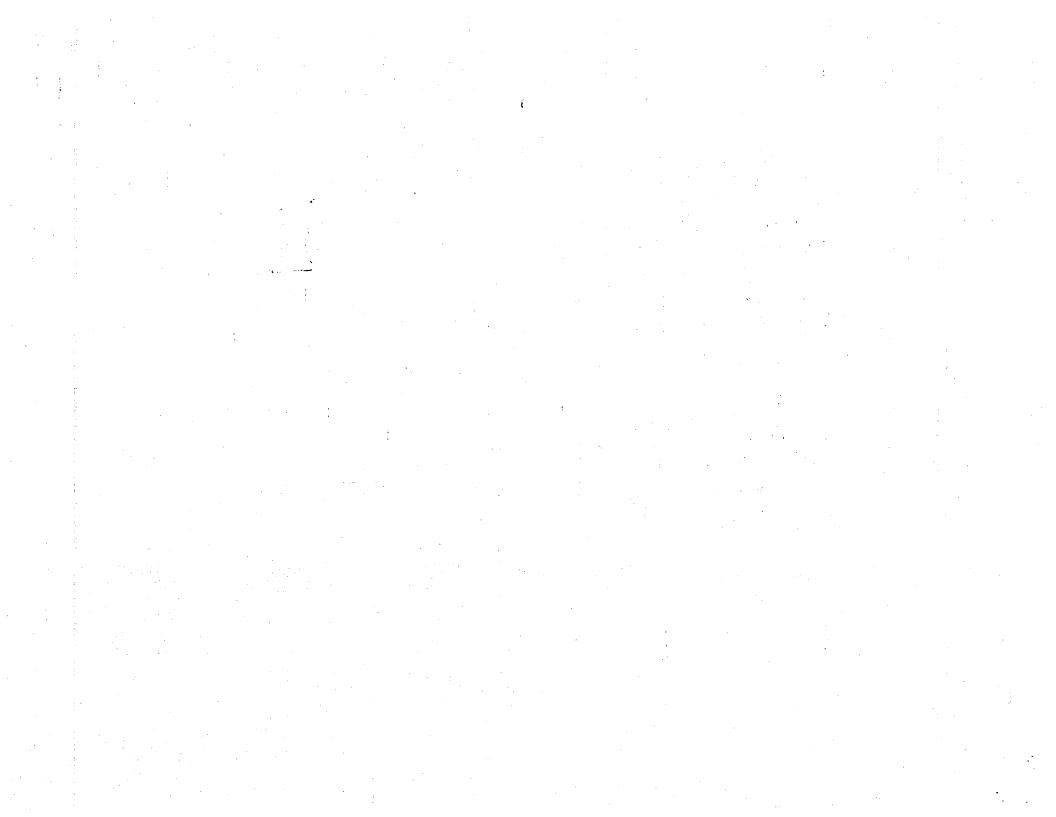
Comanche Station

Al conjusts Monitoring Well W-2 Information

Monitoring Water Well Permit Application Construction Summary Information (Submitted June 8, 1998) Permits Issued By the Division of Water Resources **GWS-31 Construction Information Form**



COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 SHERMAN ST., RM. 818, DENVER CO 80203 phone - info: (303) 866-3587 main: (303) 866-3581

MONITORING/OBSERVATION

Water Well Permit Application

Review instruc			m.		e completed in	DIACK HIK OF LYPES	
1. APPLICANT INFORMATION				6. USE OF WELL			
Name of applicant			☐ GROUND WATER SAMPLING (quality)				
n 11: Garatian Company, of Colorado			☐ MONITOR WATER LEVELS				
Public Service Company of Colorado				OTHER:			
Mailing Address				7. WELL DATA			
· -	Characte Cons	±- 000		Total depth	Aquiter		
1225 1/tn	Street, Sui	.te 900	•	25 feet			
		State	Zip code	8. CONSULTANT INFORMA	TION (ontional)		
City		CO	80202	Name	· · · · · · ·		
Denver		CU	00202	142.10			
Telephone number (Inc.	lude area code)		·	A A Language of the same of th		•	
(303) 294~	-8566			Address			
2. TYPE OF A	PPLICATION	(check applicat	le box(es))				
XXUse existing		☐ Replaceme		Tolephone number (Include area code)	•	· .	
☐ Construct ne		permit no.					
☐ Other:				9. PROPOSED WELL DRILLE	R (optional)		
3. REFER TO	lif applicable):			Company name		Licerse number	
Monitoring hole ac		Weil name or #					
		W-2	-	10. SIGNATURE of applican	t(s) or authoriz	ed agent	
мн- 30645		W-2		The making of false statements	herein constitut	es perjury	
4. LOCATION	OF WELL		Louista	The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 mis-			
County	•	Quarter/quarter NE 1/	Quarter SE 1/	demeanor pursuant to C.R.S. 24-4-104(13)(a). I have read			
Pueblo		/4	/-	demeanor pursuant to C.A.S. 2	10(10/14/1	of and state	
Section	Township NorS	1 '		the statements herein, know the contents thereof, and state			
21 🗆 🗵		64 口図 6		that they are true to my knowledge.			
Distance of well for	om section lines			Must be original signature			
47020 ft	. from ⊠N □s	475 ft.	from DE W	mold- DD		. •	
Well location address.	if different from applica			1 HATALLE			
Comanche St	tation	•		Print name legibly			
1	Road, Pueblo			Charles H. Fuller			
For replacement wells	only - discince and dire	ction from old well to	new well	Tide Comoral Manager		Date	
	feet		direction	delierar hanager,		4-27-98	
5. OWNERSH	IP INFORMAT	TION		Commodity Services			
WELL OWNER NAME (if different than applicant)			See the reverse side of this	s torm for instru	Mions, ree, and		
				1	information		
Address		بن		OPTIONAL INFORMATION	DIAIR man	Surface dev.	
				USGS map name	DWR map no.		
City "		State	Zip Code				
	•			Office Use Only			
Telephone no. (include	s area code)]			
		•				DIV	
PROPERTY OWNER	NAME (If different then	sbove)		1			
1,1101,2111,0111,01		-				co	
Address							
Address		*				WD	
		Chan	Zip Coda	- }			
City		State				ВА	
				.	-		
Telephone no. (include	a stas coda)				USE	MD	
						Form GWS-46 (12/9	
						LOTH CALCELLY	

MONITORING & OBSERVATION WELL PERMIT APPLICATION INSTRUCTIONS

ADVISORY INFORMATION: MONITORING WELLS ARE TO BE USED FOR MONITORING OF WATER LEVELS AND WATER QUALITY SAMPLING PURPOSES ONLY — AT ANY TIME THAT AN AUTHORIZED INDIVIDUAL IS NOT PRESENT SUPERVISING MONITORING & SAMPLING OF THE WELL, THE WELL IS TO BE SECURELY CAPPED & LOCKED. For RECOVERY wells use General Purpose form GWS-45 (12/95), do not use this form. For well construction criteria refer to the Colorado Water Well Construction Rules, 2CCR 402-2. A copy of the Rules may be obtained from any Division of Water Resources Office for a fee of \$3.

FEES A \$60 non-refundable filing fee is required for each application. The fee for replacement wells is \$20. Checks should be payable to the COLORADO DIVISION OF WATER RESOURCES. An application must be submitted for each well.

ALL APPLICATIONS MUST BE COMPLETED IN BLACK INK OR TYPED

- ITEM 1 APPLICANT INFORMATION This is the applicant's name and the address where all correspondence will be sent.
- ITEM 2 TYPE OF APPLICATION Check applicable box(es).
- ITEM 3 REFER TO (if applicable) Provide MH number assigned by Division of Water Resources in response to notice of intent to construct a monitoring and observation well. Complete WELL NAME if the structure has a name or identifying number.
- ITEM 4 LOCATION OF WELL The location of the well must be correctly and accurately described. The county, ¼-¼ (quarter/quarter), section, township, range, principal meridian, and distance from section lines must be provided. If the well location address is different than ITEM 1, provide the well location address, or state "same as 1." If this is for the replacement of an existing well, provide the information requested in the last blank of item 4.
- ITEM 5 OWNERSHIP INFORMATION If the owner is not the applicant, complete this information.
- ITEM 6 USE OF WELL Check applicable entry for the intended use(s).
- ITEM 7 WELL DATA The actual or anticipated total depth must be provided. Provide the name of the aquifer in which the well will be completed.
- ITEM 8 CONSULTANT INFORMATION (optional) Provide company name, address, phone, & contact person.
- ITEM 9 PROPOSED WELL DRILLER (optional) Provide name & license number. The well must be constructed in compliance with the Well Construction Rules, 2CCR 402-2, unless a variance has been approved allowing an alternative construction design.
- SIGNATURE An ORIGINAL signature of either the applicant or consultant must be on each application.

 Please print the name and title of the person signing the application, and include the date.
- OPTIONAL INFORMATION

 If known, you may complete this information. This information is helpful in the evaluation of the application, and may be completed by the applicant, consultant, or staff evaluator.

IF YOU HAVE ANY QUESTIONS regarding any item on the application form, please call the Division of Water Resources Ground Water Information Desk (303-866-3587), or the nearest Division of Water Resources Field Office located in Greeley (970-352-8712), Pueblo (719-542-3368), Alamosa (719-589-6683), Montrose (970-249-6622), Glenwood Springs (970-945-5665), Steamboat Springs (970-879-0272), or Durango (970-247-1845).

Monitoring Well Construction Summary



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS 1971 WEST 12TH AVE. DENVER, CO 80204

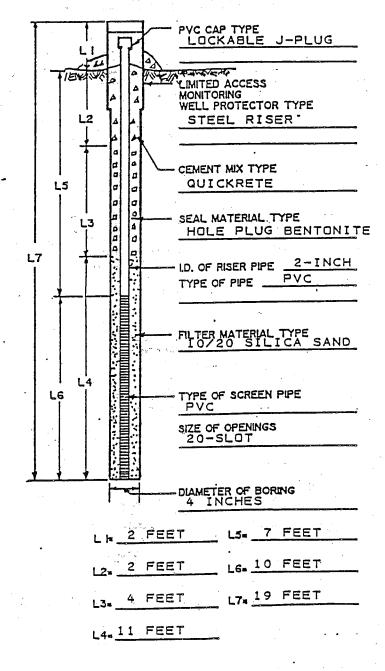
JOB NO	26,020			MONITORING WELL NO.	W-2	
JOB NAME	COMANC	HE	and the second s	DEPTH TO GROUNDWATER _		
ENGINEER	SCHNEI	DER		DATE MEASURED	5/20/97	*
INSTALLATION	DATE	5/20/97		GROUNDWATER SAMPLING DA	TE (S) N/A	
GROUND ELEV		4796	· ·			

SUMMARY LOG OF BORING

DEPTH		SOIL	SOIL DESCRIPTION
FROM	TO	SYMBOL	3012 3230111 11011
0	14	CL	CLAY, STIFF,
			DRY TO MOIST,
			BROWN, RUST
14	1'8	BR	CLAYSTONE,
			MICA LENSES,
			HARD, MOIST,
			OLIVE, RED.
			BROWN
		,	

REMARK	(S:				
SOF	=T, M	OIST	CLAY	ΑТ	_
10	FEET		ف		
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WELL DETAIL



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and the second of the second o		en de la companya de			

Form No. GWS-25

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203 (303) 866-3581

LIC

APPLICANT

Lot: Block: Filing: Subdiv:

APPROVED WELL LOCATION

PUEBLO COUNTY

NE 1/4 SE 1/4 Section 20

Twp 21 S RANGE 64 W

6th P.M.

PUBLIC SERVICE CO OF COLORADO 1225 17TH ST STE 900 DENVER CO 80202-

(303)294-8566

DISTANCES FROM SECTION LINES

North Section Line

4020 Ft. from 475 Ft. from

East Section Line

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(l) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-30645, known as W-2.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug and seal this well in accordance with the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging and sealing.
- 8) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well shall be located not more than 200 feet from the location specified on this permit.

OWNER'S COPY

APPROVED KWM

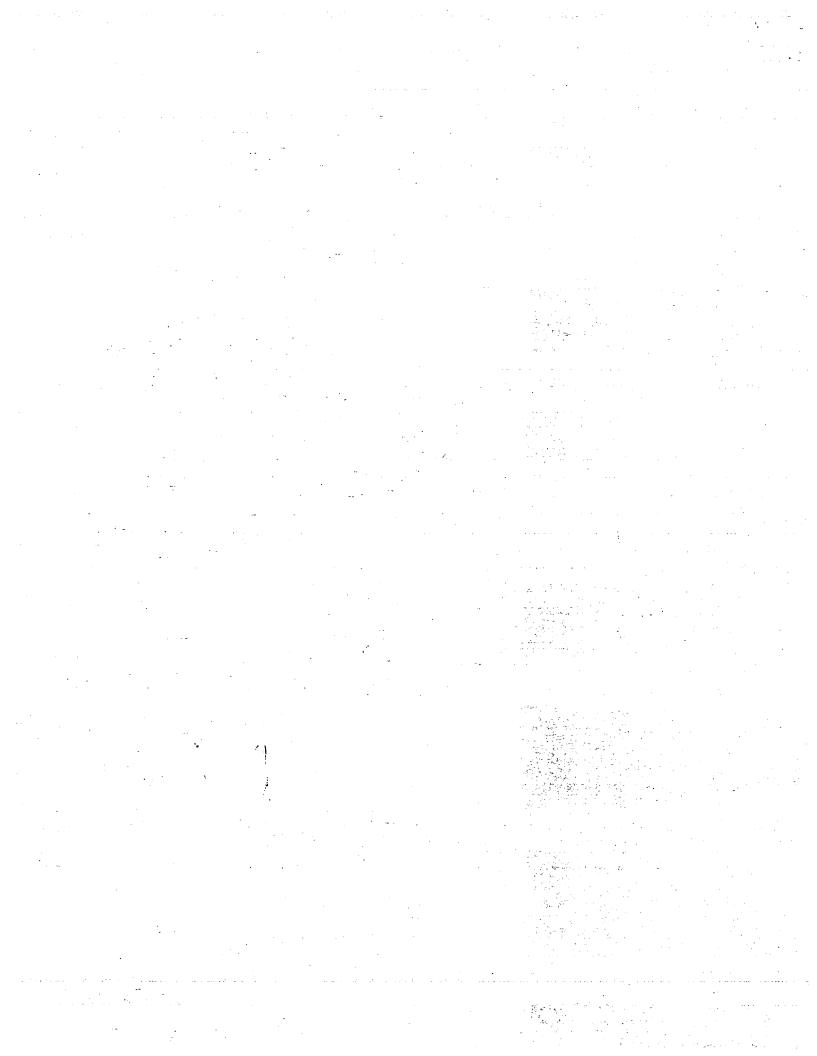
Receipt No.

State Engineer
0430074B DATE ISSUED

JUN 0 9 1998

EXPIRATION DATE

JUN 8 9 2000



WELL CONSTRUCTION AND TEST WELL CONSTRUCTION AND TEST STATE OF COLORADO, OFFICE OF THE STAT 1313 Sherman St., Rm 818, Denver, CO 86	E ENGINEER
. WELL PERMIT NUMBER	
OWNER NAME(S) PUBLIC SERVICE COMPANY	OF COLORADO
Mailing Address 1225 SEVENTEENTH STREET, City, St. Zip DENVER, COLORADO 80202 Phone (303) 294-8566	
WELL LOCATION AS DRILLED: NE 1/4 SE 1/4, S DISTANCES FROM SEC. LINES: 4,020 ft. from N Sec. line. and 475 SUBDIVISION: - STREET ADDRESS AT WELL LOCATION: COMANCHE	
	RILLING METHOD AUGER .
	DEPTH 18 ft. DEPTH COMPLETED :18 ft.
GEOLOGIC LOG: Depth Description of Material (Type, Size, Color, Water Location) '-14' CLAY, STIFF, DRY TO MOIST, BROWN, RUST.	
MOIST, OLIVE, RED, BROWN. MOIST, OLIVE, RED, BROWN. OTES: 1) BOTTOM 1 FOOT OF HOLE WAS BACKFILLED TO SET BOTTOM O CASING AT 17 FEET 2) CLAY WAS MOIST, AND SOFT A 10 FEET. 3) NO GROUND WATER IN HOLE AT TIME HOLE WAS DRILLED. 4) GDI DRILLING WAS CONSTRACT TO DRILL HOLE.	7. PLAIN CASING OD (in) Kind Wall Size From(ft) To(ft) 2
	8. FILTER PACK: 9. PACKER PLACEMENT: Material SILICA SAND Type - - Size 10/20 Interval 6' TO 17' Depth - -
W-2) EMARKS: THIS IS A MONITORING WELL FITT IITH A LIMITED ACCESS MONITORING WELL	
ROTECTOR TYPE STEEL RISER (GROUTED).	And Hand
DISINFECTION: Type -	Amt. Used –
TESTING METHOD -	nitted on Form No. GWS 39 Supplemental Well Test.
Static Level ft. Date/Time measured Pumping level ft. Date/Time measured Remarks IS_AMONITORING_WELL_SO	, Production Rategpm, Test length (hrs.) THIS ITEM NOT APPLICABLE.

I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

DEM

me/Title (Please type or print) Signature

RANK J. HOLLIDAY, PE/PRINCIPÁ

ailing Address 1971

JUNE 19, 1998

Date

The report must be typed or printed in <u>BLACK INK</u>. All changes on the form must be initialed and dated. Attach additional sheets if more space is required. Each additional sheet must be identified at the top by the well owner's name, the permit number, form name/number and a sequential page number. Report depths in feet below ground surface.

This form may be reproduced by photocopy methods, or by computer generation with prior approval by the State Engineer. Photocopy reproductions must retain margins and print quality of the original form.

The original form must be submitted to the State Engineer's Office within 60 days after completing the well or 7 days after the permit expiration date, whichever is earlier.

A copy of the form must be provided to the well owner.

- 1. Complete the Well Permit Number in full.
- 2. Fill in Name and Mailing Address of Well Owner where correspondence should be sent.
- 3. Complete the blocks for the actual location of the well where drilled. If the owner has more than one well serving this property, provide the identification (Owner's Designation) for this well. <u>DO NOT USE THE OWNER SUPPLIED LOCATION</u> unless a survey has been provided. For wells located in subdivisions the lot, block and subdivision information must also be provided.
- 4. Report the ground surface elevation in feet above sea level if available. This value may be obtained from a topographic map. Describe the drilling method used to construct the well and the date completed. Indicate the total depth drilled and the actual completed depth of the well.
- 5. Fully describe the materials encountered in drilling. Do not use formation names unless they are in conjunction with a description of materials. Examples of descriptive terms include:

 Grain size—Boulders, gravel, sand, silt, clay.

 Hardness—Loose, soft, tight, hard, very hard.

 Color—All materials. Most critical in sedimentary rock.

 Depth when water is encountered (if it can be determined).
- 6. Provide the diameters of the drilled bore hole.
- 7. The outside diameter, kind, wall thickness and interval of casing lengths must be indicated.
- 8. Indicate the type and size of filter (gravel) pack and the interval where placed.
- 9. Indicate the type and setting depth for any packers installed.
- 10. The density of the grout slurry must be reported and may be indicated as pounds per gallon, gallons of water per sack, total gallons of water and number of sacks used, etc. Specify the grout placement method, i.e. tremie pipe or positive displacement. The percentage of additives mixed with the grout should be reported under remarks.
- 11. Record the type and the amount of disinfection used, how placed and the length of time left in the hole.
- 12. Report well test data as required by Rule 10.7. Spaces are provided to report all measurements made during the test. The report should show that the test complied with the provisions of the rules. If a test was not performed explain when it will be done. If available, report clock time when measurements were taken.
- 13. Fill in Company Name and Address of Contractor who constructed the well. The report must be signed by the licensed contractor responsible for the construction of the well.